

POWER SUPPLY 2-PHASE, 12 V DC DIMENSION C SERIES

CT5.121

PSU 3PH 380-480V ac I/P 12V dc 8A 96W O/P

- Output current 8 A
- Up to 85.8% efficiency
- Active transient
- High reliability
- Integrated primary fuses



PRODUCT DESCRIPTION

Puls Dimension C-series stands for cost optimization without compromising on quality, reliability or performance.

CT5 has integrated primary fuses, which make it possible to connect the unit without the requirement of intermediate fuses up to 32 A, which saves space and money. The efficiency is high over a wide load range, which reduces power consumption and give a longer life regardless of load current. An average efficiency value is 84.7% with a top value of 85.4%.

The power supply unit can provide a higher short circuit current for a short time, which helps to trip the secondary fuses. Active transient filters ensure operation even in very disruptive electrical environments, in addition, CT5 features active inrush current protection, which means a very low starting current, even if the unit has been in operation for some time. Especially useful for redundant/parallel connected systems.

Power supply unit connected for 2 phases, which saves both wiring and fuse. Thanks to its low power consumption, the affect of unbalance in the 3- phase system becomes negligible.

We recommend clearance of 40 mm and 20 mm below the unit and 5 mm on the sides.

TECHNICAL DATA

INPUT DATA

| | |
|--|------------|
| Input voltage ac | 380-480 V |
| Input voltage ac min | 323 V AC |
| Input voltage ac max | 576 V AC |
| Input voltage dc min | 450 V DC |
| Input voltage dc max | 780 V DC |
| Inrush current at 400 V ac typical | 4 A |
| Input voltage range | Wide-range |
| Power factor at 400 V ac, full load. Typical | 0,44 |

| | |
|------------------|---|
| Number of phases | 2 |
|------------------|---|

OUTPUT DATA

| | |
|--------------------|---------|
| Output voltage | 12 V DC |
| Output voltage min | 12 V DC |
| Output voltage max | 15 V DC |
| Output current | 8 A |
| Power | 96 W |

EFFICIENCY / LIFETIME / MTBF

| | |
|---|----------|
| Efficiency at 400 V ac, typical | 84,7 % |
| Efficiency at 400 V ac, full load, typical | 85,4 % |
| Lifetime at 400 V ac, full load and +40 ° C | 51000 h |
| MTBF (IEC 61709) 400 V ac, max loan, +40 °C | 983000 h |

DIMENSIONS

| | |
|--------|--------|
| Width | 40 mm |
| Height | 124 mm |
| Depth | 117 mm |
| Weight | 0,5 kg |

OTHER

| | |
|--|---------------------------------------|
| Approvals | ABS, CB, CE, CSA US, cRUus, cULus, GL |
| Hold time at 400 V ac, typical full load | 33 ms |
| IP class | IP20 |
| Clamp type | Screw |
| Material protection | Aluminium |
| Supply frequency | 50-60 ±6 % |
| Ripple max | 100 mV pp |
| Series | Dimension C |
| Power consumption at 400 V ac | 0,64 A |
| Power drop from +60 °C to + 70 °C | 2,5 W/°C |
| Temperature min without derating | -25 °C |
| Temperature max without derating | 60 °C |
| Type Power Supply | AC-DC |
| Active Transient | Yes |

Fig. 6-1 Output voltage vs. output current, typ.

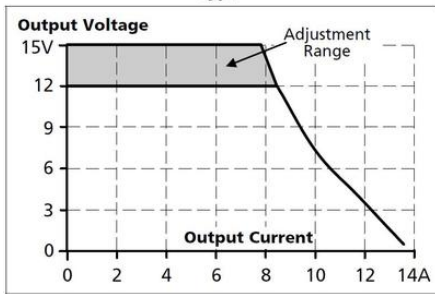


Fig. 14-1 Output current vs. ambient temp.

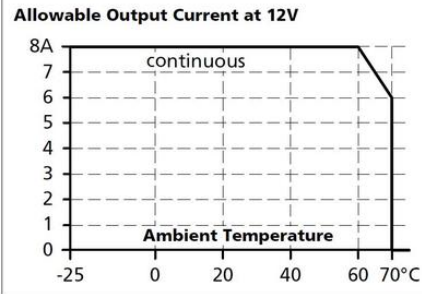


Fig. 8-1 Efficiency vs. output current at 12V, typ.

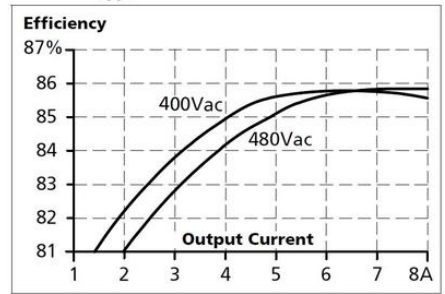


Fig. 8-2 Losses vs. output current at 12V, typ.

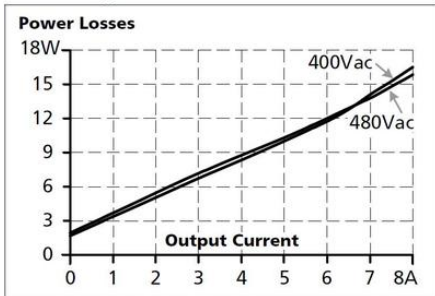


Fig. 10-1 Front side



Fig. 21-1 Front view

